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(19) World Intellectual Property Organization International Bureau



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(43) International Publication Date 12 August 2004 (12.08.2004)

PCT

(10) International Publication Number WO 2004/068722 A2

(51) International Patent Classification7:

H04B

(21) International Application Number:

PCT/US2004/001458

- (22) International Filing Date: 21 January 2004 (21.01.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/442,328

24 January 2003 (24.01.2003) US

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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

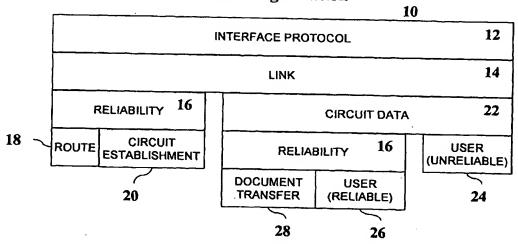
Published:

 without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR SECURE COMMUNICATIONS AND RESOURCE SHARING BETWEEN ANONYMOUS NON-TRUSTING PARTIES WITH NO CENTRAL ADMINISTRATION

Stack Organization



(57) Abstract: A unifying network model with a structure and architecture configured to address security, interoperability, mobility, and resource management, including priority and quality of services is provided. The network of the network model is structured as a hierarchical mesh network, with dynamically generated routing tables. The configuration of the network model optimizes routing and distributes communication load. Every device on the network is capable of being both an endpoint and a forwarder of communications. The network model may include underlying networks that are represented with one of two models, the link model or the star model. The nodes are organized in a hierarchical relationship structure to optimizes throughput. The model may include a cryptographic method of dynamically assigning local network addresses.

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